

# MANAGEMENT SYSTEM TEMPLATE

## B. CONSERVATION MANAGEMENT SYSTEM OPTIONS WORKSHEET

1.	STATE	Oklahoma				
2.	FIELD OFFICE	Pawhuska & Newkirk				
3.	MLRA	76				
4.	COMMON RESOURCE AREA (CRA)	0076.40.001				
5.	RESOURCE INTERPRETATIONS	<i>for each resource enter available interp data</i>				
5.1	SOIL	Soils Legend, Technical/Non-Technical Soils Interpretations				
5.2	WATER	Water Quantity and Quality Interpretations/Water Budgets				
5.3	AIR					
5.4	PLANT	Cropland Interpretations				
5.5	ANIMAL	Threatened & Endangered Species List, Wildlife Interpretations				
5.6	HUMAN					
6.	HYDROLOGIC UNIT					
7.	SYSTEM TEMPLATE LABEL	BAAZB				
8.	SYSTEM NAME	(76) Wheat, Grain Sorghum, Forage Sorghum & Soybeans				
9.	PLANNING PHASE	Non-benchmark				
10.	PLANNING LEVEL	RMS				
11.	NRCS LANDUSE	Crop				
12.	PLANNED CONSERVATION PRACTICES	<i>list practices in the system</i>				
		<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"> <ul style="list-style-type: none"> <li>1. (328) Conservation Crop Rotation</li> <li>2. (329B) Residue Mgmt., Mulch Till</li> <li>3. (342) Critical Area Planting</li> <li>4. (362) Diversion</li> <li>5. (412) Grassed Waterway</li> <li>6. (600) Terrace</li> <li>7. (528-A) Prescribed Grazing</li> <li>8. (391) Riparian Forest Buffer</li> </ul> </td> <td style="width: 50%; border: none;"> <ul style="list-style-type: none"> <li>9. (344) Residue Management, Seasonal</li> <li>10. (410) Grade Stabilization Structure</li> <li>11. (590) Nutrient Management</li> <li>12. (595) Pest Management</li> <li>13. (512) Pasture &amp; Hayland Planting (AL/BG/OW)</li> <li>14. (550) Range Seeding</li> <li>15. (393) Filter Strip</li> </ul> </td> </tr> </table>			<ul style="list-style-type: none"> <li>1. (328) Conservation Crop Rotation</li> <li>2. (329B) Residue Mgmt., Mulch Till</li> <li>3. (342) Critical Area Planting</li> <li>4. (362) Diversion</li> <li>5. (412) Grassed Waterway</li> <li>6. (600) Terrace</li> <li>7. (528-A) Prescribed Grazing</li> <li>8. (391) Riparian Forest Buffer</li> </ul>	<ul style="list-style-type: none"> <li>9. (344) Residue Management, Seasonal</li> <li>10. (410) Grade Stabilization Structure</li> <li>11. (590) Nutrient Management</li> <li>12. (595) Pest Management</li> <li>13. (512) Pasture &amp; Hayland Planting (AL/BG/OW)</li> <li>14. (550) Range Seeding</li> <li>15. (393) Filter Strip</li> </ul>
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13.	SYSTEM NARRATIVE	<i>describe how the practices work together as a system</i>				
		<p>This system includes continuous wheat (for grain &amp;/or grazing), grain sorghum, forage sorghum and soybeans (or various rotations of these) on soils varying in depth, texture and slope. Crop rotation, pest and residue management will aid in breaking weedy pest cycles. Waterways, terraces, diversions, filter strips, riparian forest buffers, grade stabilization structures and/or critical area planting will reduce erosion (sheet, rill and ephemeral), protect natural drains from sedimentation and reduce flooding. Crop rotation to deep rooted perennial plants, residue management and/or mulch tillage will aid in erosion control, improved soil tilth and reduced compaction. Pasture, hayland and range seeding will provide an alternative to cropland to provide protection from erosion. Prescribed grazing will balance the number of livestock with forage production. Nutrient management will benefit production, economics and water quality by keying application rates to plant needs and desired production.</p>				
14.	RESOURCE CONCERNS	MAGNITUDE/EFFECTS	IMPACTS			
	<ul style="list-style-type: none"> <li>1. Soil-Erosion-S&amp;R</li> <li>2. Soil-Erosion-Ephemeral</li> <li>3. Soil-Cond.-Tilth</li> <li>4. Soil-Cond.-Compaction</li> <li>5. Water-Quant.-Flooding</li> <li>6. Water-Quant.-Convey.</li> <li>7. Plants-Mgmt.-Nutrient</li> <li>8. Plants-Mgmt.-Pests</li> <li>9. Animal-Mgmt.-P/R Bal.</li> </ul>	<ul style="list-style-type: none"> <li>1. 4 T/Ac/Yr soil loss</li> <li>2. 0 T/Ac/Yr soil loss</li> <li>3. Incr. OM/Impr. Tilth</li> <li>4. Reduced compaction</li> <li>5. Improved stream cap.</li> <li>6. Impr. stream capacity</li> <li>7. Proper application.</li> <li>8. Proper application</li> <li>9. Proper stocking</li> </ul>	<ul style="list-style-type: none"> <li>1. 4 T/Ac/Yr saved</li> <li>2. 1 T/Yr soil saved</li> <li>3. Soil Cond. Index &gt;0.0</li> <li>4. Imp. plant growth &amp; vigor</li> <li>5. Reduced damage/prod. losses</li> <li>6. Red. flooding</li> <li>7. Prod./plant needs met</li> <li>8. Red. comp./Imp. prod.</li> <li>9. Imp. livestock prod.</li> </ul>			



Conservation Management Systems

BAAZA  
BAAZB

Certification of Quality Criteria

RESOURCE CONSIDERATION/PROBLEM	Term Effect		Meets Quality Criteria			
	Short	Long	Benchmark		Planned	
			Yes	No	Yes	No
<b>SOIL</b>						
Erosion						
Sheet and rill				✓		
Wind			N/A			
Irrigation induced			N/A			
Concentrated flow						
Cropland ephemeral gully				✓		
Classic gully			✓			
Soil mass movement			✓			
Roadbank and construction sites			✓			
Streambank erosion			✓			
Condition						
Tilth				✓		
Compaction				✓		
Soil contaminants			✓			
Deposition (Onsite & Offsite)						
Damage			✓			
Safety			✓			
<b>WATER</b>						
Quantity						
Seeps			✓			
Flooding				✓		
Subsurface water			✓			
Restricted capacity			✓			
Conveyance				✓		
Inadequate outlets			✓			
Restricted capacity, water bodies			✓			
Water management--irrigated			✓			
Water management--non-irrigated			✓			
Quality						
Contaminants			✓			
Aquatic habitat suitability			✓			
<b>AIR</b>						
Quality						
Sediment			✓			
Smoke			✓			
Chemical drift			✓			
Odors			✓			
Fungi			✓			
Molds			✓			
Pollen			✓			
Condition						
Temperature			✓			
Air movement			✓			
Humidity			✓			

**Conservation Management Systems**

**Certification of Quality Criteria**

RESOURCE CONSIDERATION/PROBLEM	Term Effect		Meets Quality Criteria			
	Short	Long	Benchmark		Planned	
			Yes	No	Yes	No
<b>PLANTS</b>						
Suitability						
Adapted to site			✓			
Intended use			✓			
Condition						
Productivity			✓			
Health and vigor			✓			
Management						
Establishment			✓			
Growth			✓			
Harvest			✓			
Nutrient management				✓		
Pests				✓		
Threatened and endangered species			✓			
<b>ANIMALS(domestic/wildlife)</b>						
Habitat						
Food			✓			
Cover			✓			
Shelter			✓			
Water			✓			
Threatened and endangered species			✓			
Management						
Population and Resource Balance				✓		
Animal Health			✓			

References:  
 NPPH Pages 75-78  
 FOTG Section III - Quality Criteria  
 GM -450 Part 401 Paragraph 401.03

0076.40.001  
 BAAZA  
 BAAZ-B

Conservation Practice Physical Effects on Resource Concerns  
 Candidate Practice List

State	Oklahoma	Field Office	MLRA	76	Soil Interpretations						
Resource Concerns	Soil Erosion Sheet & Rill	Soil Erosion Ephemeral	Soil Condition Tilt	Soil Condition Compaction	WATER Quantity Flooding	WATER Quantity Conv. Cap.	PLANTS Management Nutrient	PLANTS Management Pests	ANIMAL Management Rpt/Res. Bal.		
328	+	+	+	+	0	+	0	-	+		
329B	+	+	+	+	0	+	0	-	+		
342	+	+	+	+	+	+	+	0	+		
362	0	+	(-)	(-)	+	+	0	0	+		
412	0	+	0	0	+	+	N/A	-	+		
600	+	+	-	(-)	-	-	0	0	0		
528A	+	0	+	+	+	+	0	+	+		
391	+	0	0	0	0	+	N/A	-	+		
344	+	+	+	0	+	+	0	-	+		
410	0	0	0	0	+	+	0	0	0		
* 590	0	0	0	0	0	0	+	0	+		
* 595	0	0	0	0	0	0	0	+	+		
512	+	+	+	+	+	+	+	+	+		
560	+	+	+	+	+	+	0	+	+		
393	+	0	0	0	N/A	+	N/A	-	0		

\* Not in FOTG Sec. IV  
 (-) Short term negative effect